

83-611 Balancing of sensor chain

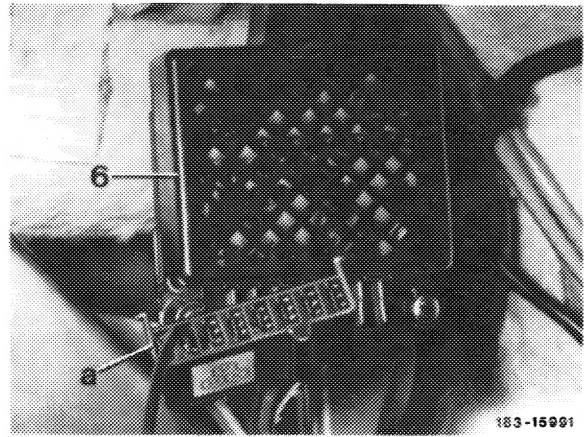
Resistances for balancing of sensor chain

Ambient temperature		65 °F		Dial setting °F	85 °F	
°C	(°F)	min.	max.	75 °F	min.	max.
18	(64)	2550	3450	3590	3730	4740
19	(66)	2530	3330	3470	3610	4620
20	(68)	2420	3220	3360	3510	4500
21	(70)	2320	3120	3270	3420	4390
22	(72)	2230	3020	3170	3330	4290
23	(74)	2140	2920	3090	3240	4190
24	(76)	2050	2820	3000	3150	4090
25	(78)	1970	2730	2920	3070	4000
26	(79)	1890	2650	2840	2990	3920
27	(80)	1820	2570	2770	2910	3840
28	(81)	1750	2490	2690	2840	3760
29	(84)	1670	2410	2620	2770	3690
30	(86)	1600	2340	2550	2700	3620
31	(88)	1540	2270	2490	2640	3550
32	(90)	1480	2210	2430	2590	3500
33	(92)	1440	2150	2380	2540	3440
34	(93)	1380	2080	2320	2490	3370
35	(96)	1340	2030	2260	2440	3320
36	(97)	1290	1970	2200	2390	3260
37	(98)	1250	1910	2150	2340	3160
38	(100)	1210	1860	2090	2290	3110
39	(102)	1170	1810	2030	2250	3070
40	(104)	1130	1770	1980	2200	3020

1 For balancing and subsequent control measurements, the uniform temperature on in-car temperature sensor and ambient temperature sensor must be assured. For reliable attainment of such a condition, leave vehicle over night (at least 6 hours) in workshop with vehicle windows opened. Engine should not be started again.

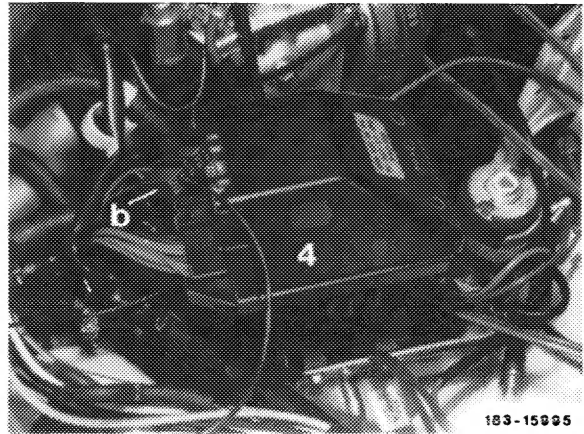
2 Remove glove box. Then connect an ohmmeter between terminal 3 of plug connection (a) of amplifier and terminal 2 of plug connection (b) of regulating valve. For this purpose, pull off coupling on amplifier and inner coupling on regulating valve (refer to electrical wiring diagram 83-605).

6 Amplifier
a 8-point plug connection



183-15991

4 Regulating valve
b 5-point plug connection, inner



183-15995

3 Measure workshop temperature (= sensor temperature) and take pertinent resistance value for adjustment 75 °F from diagram (table).

4 Set to determined resistance by rotating temperature dial.

5 Hold potentiometer shaft in position by means of adjusting wrench (2) and set temperature dial (1) to 75 °F by rotating on shaft.

1 Temperature dial
2 Adjusting wrench



183-15978

6 Turn temperature dial to 65 °F (up to stop). Read resistance value on measuring instrument and compare with value taken from table for adjustment to 65 °F to check.

7 Set temperature dial up to stop to 85 °F and compare indicated resistance also with value shown on table.

8 If the resistance values measured according to items 6 and 7 are not in accordance with the respective values in table, a portion of the sensor chain (in-car or ambient temperature sensor or nominal value — potentiometer of temperature dial) is outside the permissible resistance tolerance and must be replaced. Test ambient and in-car temperature sensor, as well as potentiometer in temperature dial (83—609).